Chapter 10 : AFRTS Decoder Download Procedures

9234 Decoders

This procedure applies to all customers who receive the AFRTS, AFN-Europe and/or DTS (Direct to Sailor) signal via satellite using a Scientific Atlanta Power-Vu model 9234 desk-top IRD (Integrated Receiver Decoder). The OS download is an out-of-service process: no video, audio or data will be available from your IRD during the download.

Carefully follow this simplified OS download procedure:

6) From the MAIN MENU, cursor up to RECEIVER STATUS and push “select.” This will access the RECEIVER STATUS menu.

7) From the RECEIVER STATUS menu, cursor up to USER SETUP and push “select.” This will access the USER SETUP menu.

8) From the USER SETUP menu, cursor up to NETWORK PRESETS and push “select.” This will access the NETWORK PRESETS menu.

9) Caution, this is an extremely important step: check the USE NIT block in this menu. It should indicate YES. If it reads NO, cursor up to the USE NIT block and press the “select” button to change it to YES.

10) Move the cursor to “exit” and push “select.” You will be prompted to save the settings: a box will appear and you will be asked to push 1 for yes, 2 for no or 3 to cancel. Press 1. Move the cursor to “exit” and press “select.” Repeat this step as prompted as you exit through all the menus. NOTE: FAILURE TO PUT YOUR DECODER IN THIS (USE NIT YES) MODE PRIOR TO PERFORMING THE NEXT PROCEDURE WILL RESULT IN THE DECODER LOCKING UP AND COULD REQUIRE FACTORY MAINTENANCE TO CORRECT THE PROBLEM.

11) With the IRD still locked to the incoming signal, tune the IRD to any channel.

12) After the IRD locks on a channel, simply press the ON/STANDBY button on the front of the IRD. The IRD will determine whether it needs an OS download.

13) If the IRD does not need an OS download, it simply shuts off when the ON/STANDBY button is pressed. Pressing the ON/STANDBY button again will turn the IRD back on.

14) If the IRD determines it needs an OS download, it will begin the download process automatically. This procedure will take up to 15 minutes for each decoder requiring an OS download.

15) Once the OS download is completed, the IRD will return back “ON” to the channel previously selected.

Should you encounter problems with this process, please contact AFRTS-Broadcast Center at commercial (909) 413-2339 or DSN 348-1339, or email dee@dodmedia.osd.mil

9223 Decoders

This procedure applies to all customers that receive AFRTS, AFN Europe, or DTS (Direct to Sailors) programming via satellite using the Scientific Atlanta 9223 Commercial type IRD (Integrated Receiver Decoder). The following simple procedure will guide you in downloading new software to update your decoder. Note: OS Download is an out of service process – no video, audio, or data programming will be available from an IRD during a download.

How can I tell if I need an OS download?

On any one of the model 9223 commercial IRDs, press the MENU button on the front of the IRD. The DECODER VERSIONS line on the main menu shows the Display Control Processor (DCP) software version. The DCP and CCP are loaded, as a separate file, which means two separate OS downloads must take place. If the IRD has the latest version of either processor, then only one download is needed.

Carefully follow this simplified OS download procedure:

1. With the IRD locked to the incoming AFRTS, AFN Europe, or DTS satellite signal simply press the On/Standby button on the front of the IRD. Wait approximately 10 minutes. The IRD will automatically download the required software.
2. Press the On/Standby button on the front of the IRD a second time. Wait approximately 10 minutes. The IRD will automatically download the required software if needed.
3. After the ON/STANDBY or STANDBY button has been pressed, the IRD will determine whether it needs an OS Download and begin the process automatically. This procedure will take up to 10 minutes for each OS download. Once the OS download is completed, the IRD will return back “On” to the channel previously selected. If the IRD does not need an OS download, it simply shuts off when the ON/STANDBY or STANDBY button is pressed.

Should problems be encountered with this process, please contact AFRTS-BC at (909) 413-2339, DSN 348-1339, or e-mail at dee@dodmedia.osd.mil.

How to read PowerVu decoder TIDs

The TID for all decoders is comprised of 12 digits broken down into the following meanings.

Digit 1. Refers to the last digit of the year i.e. “0” for 2000, “1” for 2001 etcetera up to “4” for 2004. If 5 to 9 are present then these were manufactured in 1995 through 1999 respectively. The TIDs will be revisited in the future to accommodate 2005 etc.

Digits 2 & 3. Refer to the week of the year from 01 to 52.

Digits 4 & 5. Refer to the particular model of decoder as follows.

- 76 for the D9223 Commercial Receiver
- 87 for the D9224 Professional Satellite Receiver
- 79 for the D9225 Headend Satellite Receiver (HESR)
- 89 for the D9228 Multiple Decryption Receiver (MDR)
- 90 for the D9229 Commercial Headend Receiver
- 97 for the D9230 Master Control Receiver (MCR)
- 78 for the D9234 Business Satellite Receiver (BSR – including BSR Lite)
- 88 for the D9235 Digital Satellite Receiver (DSR)

Digit 6. Refers to the country of manufacture where ‘ 0 ‘ is Canada and ‘ 1 ‘ is for Korea.

Digits 7 – 12. Are effectively the serial numbers of the unit.